

Appendix B
Summary of Sampling Data For Compliance Received For the 2005 Cruise Season.

Note: Only the data for the ships that received approval for discharge are required to submit data per the MOU; and some of the data below is data gathered prior to approval for continuous discharge in Alaska.

highlighted blue = outside of Washington/Alaska voyage waters or discharge approval period

SHIP: NORWEGIAN SPIRIT							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
4/10/05	Miami/SGS	6.38	ND 6	5	ND 0.1	ND 1	
4/24/05	Miami/SGS	6.67	4.2	5	ND 0.1	ND 1	
5/17/05	Juneau/Analytica	7.11	ND< 2	ND< 4	ND< 0.1	ND< 2	
5/21/05	Seattle/Laucks	6.1	ND 5	ND 2	< 0.1	22	
5/24/05	Juneau/Analytica	6.52	ND< 2	ND< 4	0.17	ND< 2	random unannounced including other parameters
6/7/05	Juneau/Analytica	6.94	2.29	ND< 4	ND< 0.1	ND< 2	
6/11/05	Seattle/Laucks	6.1	ND 4	ND 2	< 0.1	< 2	
7/12/05	Juneau/Analytica	6.95	9.95	8.20	ND< 0.1	23.3	
7/16/05	Seattle/Laucks	6.60	ND 5	2	< 0.1	2	
7/26/05	Juneau/Analytica	6.87	2.88	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
8/2/05	Juneau/Analytica	6.88	2.24	ND< 4	ND< 0.1	ND< 2	
8/6/05	Seattle/Laucks	6.8	6.2	5	< 0.1	ND< 2	
9/10/05	Seattle/Laucks	6.8	ND 5	2	< 0.1	ND< 2	
9/10/05	Seattle/NCA	6.68	4.90	ND< 4	ND< 0.02	ND< 1	Taken by Ecology
9/13/05	Juneau/Analytica	6.68	2.57	ND< 4	ND< 0.1	ND< 2	
	MINIMUM	6.10	ND	ND	ND	ND	Seattle testing met
	AVERAGE		4.28	3.95	0.10		
	MAXIMUM	7.11	9.95	8.20	0.17	23.3	
	GEOMETRIC MEAN					2.4	July's monthly geometric mean = 5

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SHIP: NORWEGIAN STAR							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
4/6/05	Miami/SGS	6.58	5.1	ND 10	ND 0.2	ND 2	
4/22/05	Miami/SGS	6.25	ND 5	ND 10	ND 0.2	17	
5/8/05	Miami/SGS	6.60	6.2	ND 10	ND 0.2	ND 1	
5/22/05	Seattle/Laucks	6.4	4	6	< 0.1	2	
6/7/05	Juneau/Analytica	6.50	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/12/05	Seattle/Laucks	6.2	7.8	3	< 0.1	< 2	
6/14/05	Juneau/Analytica	6.62	3.64	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/5/05	Juneau/Analytica	7.57	ND< 2	ND< 4	ND< 0.1	ND< 2	
7/17/05	Seattle/Laucks	6.4	14	7	< 0.1	< 2	
7/19/05	Juneau/Analytica	7.74	ND< 2	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
8/2/05	Juneau/Analytica	6.86	ND< 2	ND< 4	ND< 0.1	ND< 2	
8/14/05	Seattle/Laucks	6.7	11	8	< 0.1	< 2	
8/14/05	Seattle/NCA	6.67	35.9	4.5	0.0250	ND< 1	Taken by Ecology
9/11/05	Seattle/Laucks	6.6	ND< 5	4	< 0.1	< 2	
9/13/05	Juneau/Analytica	6.69	ND< 2	ND< 4	ND< 0.1	ND< 2	
	MINIMUM	6.20	ND	ND	ND	ND	Seattle testing met
	AVERAGE		7.18	5.8	0.1150		
	MAXIMUM	7.74	35.90	10.0	0.2000	17	August's BOD monthly avg <30, weekly <45
	GEOMETRIC MEAN					2	April's monthly geometric mean = 3

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SHIP: NORWEGIAN DREAM							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
4/19/05	Miami/SGS	6.54	5.8	7.0	0.020	ND 10	
4/24/05	Miami/SGS	5.80	6.8	7.0	0.020	ND 5	
5/1/05	Miami/SGS	6.38	6.2	ND 5	0.050	ND 2	
5/16/05	Miami/SGS	6.39	15	ND 10	ND 0.2	ND 2	
5/19/05	Miami/SGS	6.1	ND 10	ND 1	ND 0.5	5	
5/22/05	Juneau/Analytica	6.63	26.1	23.3	ND< 0.1	ND< 2	
5/30/05	Seattle/Laucks	6.2	*	ND 2	< 0.1	2	*laboratory missed holding time for BOD
6/5/05	Juneau/Analytica	7.57	8.52	ND< 4	ND< 0.1	ND< 2	
6/20/05	Seattle/Laucks	6.5	21	4	< 0.1	< 2	
6/26/05	Juneau/Analytica	6.77	160	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/11/05	Seattle/Laucks	6.2	21	3	< 0.1	< 2	
7/17/05	Juneau/Analytica	7.31	9.02	ND< 4	ND< 0.1	ND< 2	
7/21/05	Seattle/NCA	6.67	21.2	ND 4	0.0940	ND 1	Taken by Ecology
7/21/05	Seattle/Laucks	6.5	16	6	< 0.1	< 2	
7/24/05	Juneau/Analytica	6.38	12.4	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
8/22/05	Seattle/Laucks	6.6	36	ND 2	< 0.1	4	
8/28/05	Juneau/Analytica	6.80	18.8	11.4	ND< 0.1	ND< 2	
9/1/05	Seattle/Laucks	6.1	18	2	< 0.1	4	
9/4/05	Juneau/Analytica	7.40	21.4	ND< 4	ND< 0.1	ND< 1	
	MINIMUM	5.80	ND	ND	ND	ND	Seattle testing met
	AVERAGE		24.07	5.7	0.1149		
	MAXIMUM	7.57	160.00	23.3	0.5000	10	
	GEOMETRIC MEAN					2	

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SHIP: DIAMOND PRINCESS							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
5/9/05	Juneau/Analytica	7.28	2.08	ND< 4	ND< 0.1	ND< 2	
5/14/05	Seattle/Laucks	6.1	16	ND< 2	< 0.1	< 5	other results also - MBR effluent
5/23/05	Juneau/Analytica	7.27	ND< 2	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
5/30/05	Juneau/Analytica	7.65	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/6/05	Juneau/Analytica	7.68	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/11/05	Seattle/Laucks	6.8	5	ND< 2	< 0.1	< 2	
6/20/05	Juneau/Analytica	7.64	2.05	ND< 4	ND< 0.1	ND< 2	
6/25/05	Seattle/Laucks	6.7	ND< 5	ND< 2	< 0.1	20	
6/27/05	Juneau/Analytica	8.02	2.05	ND< 4	ND< 0.1	4	
7/4/05	Juneau/Analytica	8.04	13.4	ND< 4	ND< 0.1	ND< 2	
7/9/05	Seattle/Laucks	6.8	ND 5	2	< 0.1	< 2	
7/18/05	Juneau/Analytica	7.77	2.39	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/25/05	Juneau/Analytica	8.12	2.07	ND< 4.0	ND< 0.1	4	
8/1/05	Juneau/Analytica	7.64	ND< 2	ND< 4	ND< 0.1	ND< 2	
8/6/05	Seattle/NCA	7.50	14.1	ND 4	ND 0.0200	1	Taken by Ecology
8/6/05	Seattle/Laucks	7.6	4.8	ND< 2	< 0.1	4	
8/15/05	Juneau/Analytica	7.95	6.44	ND< 4	ND< 0.1	ND< 2	
8/22/05	Juneau/Analytica	7.62	34.1	ND< 4	ND< 0.1	ND< 2	
8/29/05	Juneau/Analytica	7.51	ND< 2	ND< 4	ND< 0.1	ND< 2	
9/10/05	Seattle/Laucks	6.7	12	ND 2	< 0.1	4	
9/12/05	Juneau/Analytica	7.65	ND< 2	ND< 4	ND< 0.1	ND< 1	
9/19/05	Juneau/Analytica	7.78	ND< 2	ND< 4	ND< 0.1	12	
9/27/05	Juneau/Analytica	7.44	ND< 2	ND< 4	ND< 0.1	ND< 1	
	MINIMUM	6.10	ND	ND	ND	ND	Seattle testing met
	AVERAGE		6.19	3.5	0.0965		Oct 04 - Apr 05 on CD
	MAXIMUM	8.12	34.10	4.0	0.1000	20	June monthly geo mean = 4
	GEOMETRIC MEAN					3	

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SHIP: SAPPHIRE PRINCESS							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
5/9/05	Juneau/Analytica	7.54	8.44	ND< 4	ND< 0.1	3100	power outages prior to sampling
5/17/05	Ketchikan	7.39	8.97	0.5	0	ND< 2	
5/18/05	Juneau/Analytica	7.51	9.87	ND< 4	ND< 0.1	ND< 2	
5/22/05	Seattle/Laucks	7.3	5	2	< 0.1	< 10	other results also - MBR effluent
5/25/05	Juneau/Analytica	7.89	4.09	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
6/1/05	Juneau/Analytica	7.46	4.88	ND< 4	ND< 0.1	ND< 2	
6/12/05	Seattle/Laucks						Lab mixed up samples with another client
6/15/05	Juneau/Analytica	7.82	4.48	ND< 4	ND< 0.1	ND< 2	
6/22/05	Juneau/Analytica	7.87	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/26/05	Seattle/Laucks	7.8	10	ND 2	< 0.1	< 2	
6/29/05	Juneau/Analytica	7.93	5.02	ND< 4	ND< 0.1	ND< 2	
7/6/05	Juneau/Analytica	7.83	13.5	ND< 4	ND< 0.1	ND< 2	
7/10/05	Seattle/Laucks	7.2	6	ND 2	< 0.1	< 2	
7/20/05	Juneau/Analytica	8.00	9.73	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/27/05	Juneau/Analytica	7.66	4.60	ND< 4	ND< 0.1	ND< 2	
8/3/05	Juneau/Analytica	7.62	26.4	ND< 4	ND< 0.1	ND< 2	
8/14/05	Seattle/Laucks	7.2	4	3	< 0.1	< 2	
8/14/05	Seattle/NCA	7.21	ND 2	ND 4	0.0360	ND 1	Taken by Ecology
8/17/05	Juneau/Analytica	7.97	2.10	ND< 4	ND< 0.1	ND< 2	
8/24/05	Juneau/Analytica	7.99	ND< 2	ND< 4	ND< 0.1	ND< 2	
8/31/05	Juneau/Analytica	7.79	3.52	ND< 4	ND< 0.1	ND< 2	
9/11/05	Seattle/Laucks	6.7	ND 5	ND 2	< 0.1	< 2	
9/14/05	Juneau/Analytica	7.70	3.84	ND< 4	ND< 0.1	ND< 1	
9/21/05	Juneau/Analytica	7.19	ND< 2	ND< 4	ND< 0.1	ND< 2	
10/8/05	San Pedro/Michelson	7.01	9	< 6	0.03	4	
	MINIMUM	6.70	ND	ND	ND	ND	Seattle testing met
	AVERAGE		6.52	3.6	0.0903		Oct 04 - Apr 05 on CD
	MAXIMUM	8.00	26.40	6.0	0.1000	3100	May monthly geo mean = 12
	GEOMETRIC MEAN					3	

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SHIP: HOLLAND OOSTERDAM							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
5/9/05	Juneau/Analytica	7.66	ND< 2	ND< 4	ND< 0.1	ND< 2	Black Water
5/9/05	Juneau/Analytica	6.62	5.33	ND< 4	ND< 0.1	ND< 2	Gray Water
5/14/05	Seattle/Laucks	6.9	ND 12	ND 2	< 0.1	< 2	Black Water
5/14/05	Seattle/Laucks	6.7	15	ND 2	< 0.1	< 2	Gray Water
5/16/05	Juneau/Analytica	7.74	ND< 2	ND< 4	ND< 0.1	2	Black Water
5/16/05	Juneau/Analytica	11.6	ND< 2	ND< 4	0.11	ND< 2	Gray Water
5/21/05	Seattle/Laucks	7.1	ND 4	ND 2	< 0.1	< 2	Black Water
5/21/05	Seattle/Laucks	6.4	15	ND 2	< 0.1	< 2	Gray Water
5/23/05	Juneau/Analytica	7.81	2.01	ND< 4	0.15	ND< 2	Black Water
5/23/05	Juneau/Analytica	6.87	23.7	ND< 4	ND< 0.1	ND< 2	Gray Water
5/30/05	Juneau/Analytica	7.63	ND< 2	ND< 4	ND< 0.1	ND< 2	Black Water
5/30/05	Juneau/Analytica	6.82	23.3	ND< 4	ND< 0.1	ND< 2	Gray Water
6/11/05	Seattle/Laucks	7.4	ND 4	ND 2	< 0.1	< 2	Black Water
6/18/05	Seattle/Laucks	6.9	5	ND 2	< 0.1	2	Black Water
6/18/05	Seattle/Laucks	6.2	54	6	< 0.1	< 2	Gray Water
6/20/05	Juneau/Analytica	7.87	ND< 2	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray
6/27/05	Juneau/Analytica	7.52	32.3	6	ND< 0.1	6	Combined Black and Gray; random unannounced including other parameters
7/4/05	Juneau/Analytica	7.65	12.3	ND< 4.0	ND< 0.1	ND< 1	Combined Black and Gray
7/11/05	Juneau/Analytica	7.40	19.0	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray
7/16/05	Seattle/Laucks	6.7	9	ND 2	< 0.1	< 2	Black Water
7/16/05	Seattle/Laucks	7.0	12	2	< 0.1	< 2	Gray Water
7/18/05	Juneau/Analytica	7.03	28.5	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray
7/25/05	Juneau/Analytica	7.75	31.2	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray
8/6/05	Seattle/Laucks	7.3	5.6	4	< 0.1	2	Black Water
8/6/05	Seattle/Laucks	7.5	42	2	< 0.1	2	Gray Water
8/8/05	Juneau/Analytica	7.59	14.6	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray; random unannounced including other parameters
8/15/05	Juneau/Analytica	7.62	16.8	ND< 4	ND< 0.1	2	Combined Black and Gray
8/22/05	Juneau/Analytica	7.58	4.41	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray
8/29/05	Juneau/Analytica	7.59	22.4	ND< 4	ND< 0.1	ND< 2	Combined Black and Gray
9/5/05	Juneau/Analytica	7.62	50.7	ND< 4	ND< 0.1	2	Combined Black and Gray
9/10/05	Seattle/NCA	7.59	112	ND 4	ND 0.0200	10	Taken by Ecology; Black Water
9/10/05	Seattle/NCA	7.31	27.1	ND 4	ND 0.0200	*	Taken by Ecology; Gray Water; fecal not sampled
9/12/05	Juneau/Analytica	7.65	29.2	ND< 4	ND< 0.1	2	Combined Black and Gray
9/19/05	Juneau/Analytica	7.82	22.4	9.80	ND< 0.1	16.7	Combined Black and Gray
	MINIMUM	6.20	ND	ND	ND	ND	No September Seattle testing by cruise line
	AVERAGE		19.55	3.76	0.0971		
	MAXIMUM	11.60	112.00	9.80	0.1500	16.7	
	GEOMETRIC MEAN					2.2	

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SHIP: HOLLAND VEENDAM							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
5/11/05	Juneau/Analytica	7.08	ND< 2	ND< 4	ND< 0.1	ND< 2	
5/19/05	Juneau/Analytica	7.08	ND< 2	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
6/2/05	Juneau/Analytica	7.59	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/22/05	Juneau/Analytica	7.97	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/30/05	Juneau/Analytica	7.48	ND< 2	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/14/05	Juneau/Analytica	7.21	ND< 2	ND< 4	ND< 0.1	ND< 2	
7/20/05	Juneau/Analytica	8.22	2.78	ND< 4	ND< 0.1	ND< 2	
7/28/05	Juneau/Analytica						random unannounced priority pollutants only
8/11/05	Juneau/Analytica	7.47	ND< 2	ND< 4	ND< 0.1	ND< 2	
8/25/05	Juneau/Analytica	8.04	2.15	ND< 4	ND< 0.1	ND< 2	
9/8/05	Juneau/Analytica	7.77	ND< 2	ND< 4	ND< 0.1	ND< 2	
9/22/05	Juneau/Analytica	7.83	ND< 2	ND< 4	ND< 0.1	ND< 2	
	MINIMUM	7.08	ND	ND	ND	ND	No Sept. Seattle sample
	AVERAGE		2.08	4	0.1		
	MAXIMUM	8.22	2.78	4	0.1	2	
	GEOMETRIC MEAN					2	

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SHIP: HOLLAND VOLENDAM							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
5/13/05	Juneau/Analytica	7.34	5.68	ND< 4	ND< 0.1	ND< 2	
5/20/05	Juneau/Analytica	7.21	ND< 2	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
6/3/05	Juneau/Analytica	7.31	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/10/05	Juneau/Analytica	7.21	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/24/05	Juneau/Analytica	7.43	2.95	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/1/05	Juneau/Analytica	7.25	2.22	ND< 4	ND< 0.1	ND< 2	
7/15/05	Juneau/Analytica	7.43	3.51	ND< 4	ND< 0.1	ND< 2	
8/12/05	Juneau/Analytica	7.32	ND< 2	ND< 4	ND< 0.1	ND< 2	
8/19/05	Juneau/Analytica	7.14	3.09	ND< 4	ND< 0.1	ND< 2	
9/2/05	Juneau/Analytica	7.93	4.45	ND< 4	ND< 0.1	ND< 1	
9/9/05	Juneau/Analytica	7.16	ND< 2	ND< 4	ND< 0.1	ND< 1	
	MINIMUM	7.14	ND	ND	ND	ND	No Sept. Seattle sample - did not discharge
	AVERAGE		2.90	4	0.1		
	MAXIMUM	7.93	5.68	4	0.1	2	
	GEOMETRIC MEAN					2	

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SHIP: HOLLAND ZAANDAM							
		pH	BOD	TSS	Chlorine Residual	Fecal Coliform	Comments
		St. Units	mg/l	mg/l	mg/l	#/100 ml	
MOU/Alaska Limits ¹		6-9	30/45	30/45	10 ug/l	20 / 40	
WA State Water Quality Standards ²		6.5-9.0	NA	NA	13 / 7.5 ug/l	14 / 43	
Sample Date	Location/ Lab						
5/16/05	Juneau/Analytica	7.82	ND< 2	ND< 4	ND< 0.1	ND< 2	
5/23/05	Juneau/Analytica	7.86	4.03	ND< 4	0.13	ND< 2	
5/30/05	Juneau/Analytica	7.58	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/4/05	VanCouver/CANTEST	6.64	ND< 10	ND< 1	ND< 0.0	ND< 1	
6/6/05	Juneau/Analytica	8.05	3.71	ND< 4	ND< 0.1	ND< 2	
6/13/05	Juneau/Analytica	8.03	ND< 2	ND< 4	ND< 0.1	ND< 2	
6/27/05	Juneau/Analytica	7.86	2.85	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
7/11/05	Juneau/Analytica	7.38	4.02	ND< 4	ND< 0.1	ND< 2	
7/18/05	Juneau/Analytica	7.65	4.21	ND< 4	ND< 0.1	ND< 2	
8/1/05	Juneau/Analytica	7.63	5.52	ND< 4	ND< 0.1	ND< 2	
8/8/05	Juneau/Analytica	7.89	4.94	ND< 4	ND< 0.1	ND< 2	random unannounced including other parameters
8/22/05	Juneau/Analytica	7.53	6.58	ND< 4	ND< 0.1	ND< 2	
9/5/05	Juneau/Analytica	7.99	ND< 2	ND< 4	ND< 0.1	ND< 1	
9/12/05	Juneau/Analytica	8.08	ND< 2	ND< 4	ND< 0.1	ND< 1	
	MINIMUM	6.64	ND	ND	ND	ND	No Sept. Seattle sample - did not discharge
	AVERAGE		3.99	4	0.10		
	MAXIMUM	8.08	10.00	4	0.13	2	
	GEOMETRIC MEAN					2	

Appendix B
Summary of Sampling Data For Compliance Received For the 2005 Cruise Season.

ND = Non Detect, value in box is the detection level

BOD = Biochemical Oxygen Demand - or organics; TSS = Total Suspended Solids

mg/l = milligrams per liter; ug/l = micrograms per liter; #/100 ml = coliforms per 100 millileters

¹MOU/Alaska limits from Title XIV, Certain Alaska Cruise Ship Operations, Section 1404(c) /40CFR 133.102

BOD and TSS: 30-day average shall not exceed 30 mg/l, 7-day average shall not exceed 45 mg/l

Fecal Coliform: geometric mean of any 30-day period shall not exceed 20 fecal coliform/100 ml and not more than 10% of the samples exceed 40 fecal coliform/100 ml

²Washington State Water Quality Standards for Surface Waters of the State of Washington Chapter 173-201A WAC

Fecal Coliform: shall not exceed a geometric mean of 14 colonies/100 ml and not more than 10% of a samples shall exceed a geometric mean of 43 colonies/100 ml

pH: 7-8.5 with a human-caused variation within less than 0.5

chlorine: 13 ug/l is the acute limit (1-hour average); 7.5 ug/l is the chronic limit (4-day average)